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THE **ANNUAL REPORT**

OF THE

**Sanitary Condition**

OF THE

**COUNTY BOROUGH OF HANLEY,**

INCLUDING THE

**VITAL STATISTICS FOR THE YEAR 1894,**

*Submitted to the Sanitary Committee,*

BY

**JOHN CLARE, L.R.C.S., D.P.H.,**

Medical Officer of Health for the County Borough of Hanley.

Hanley:

ALLBUT AND DANIEL, PERCY STREET PRINTING WORKS.

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ANNUAL REPORT of the MEDICAL  
OFFICER OF HEALTH for the County  
Borough of Hanley.



GENTLEMEN,

I have the honour to present you with my Annual Report on the Sanitary condition of the County Borough of Hanley, for the year ending December 31st, 1894.

AREA.—The County Borough of Hanley, for the purposes of registration, is divided into two districts: Hanley, 590 acres; Shelton, 1,178 acres; being a total of 1,768 acres.

POPULATION.—The enumerated population of Hanley in 1881, was—Hanley, 22,418; Shelton, 25,943; total, 48,361. By the census of 1891 the population was—Hanley, 25,618; Shelton, 29,328; total, 54,946. Assuming that the rate of increase which prevailed between the two last census enumerations is still maintained, I find that the estimated population for the middle of 1894, will be:—

Hanley .. .. .	26,753
Shelton .. .. .	30,521
	<hr/>
Total for the Borough ..	57,274

This estimate is made on the supposition that the increase of population would be in the same proportion as in the last decade, but if we take the actual excess of births over deaths, since the last census, viz. :—1,577 in Shelton, and 1,475 in Hanley, the population would be 57,998.

The birth and death rates are calculated on the estimated population, 57,274.

The number of inhabited houses in the Borough, are :—

Hanley .. .. .	5,150
Shelton .. .. .	5,792

Empty houses, 208.

BIRTHS.—The births registered in Hanley, were 1,012 ; Shelton, 1,043 ; total, 2,055 ; being a decrease of 73 on the number registered in 1893.

The birth rate is 35·8 per 1,000 of the estimated population.

The birth rate of the 33 largest towns was 30·7.

The birth rate in 1893 was 37·6.

Of the 2,055 births, 1,100 were males, 955 females.

The births out of wedlock were 105, being equal to 5·1 per cent. of the total births.

The percentage of illegitimate children in the preceding year was 4·7.

I am informed by the Registrars, that the number of illegitimate births in Hanley is increased by the fact that many young women leave the rural districts where they are known, to be confined in the towns.

The sex proportion of children born was 110 males to 86 females.

In the preceding year there were born 102 males to 97 females.

DEATHS.—I have appended to this Report a Table of Deaths, occurring in Hanley and Shelton during the year 1894, classified according to diseases and ages.

The records show that 483 deaths were registered in Hanley, and 503 in Shelton, making a total of 986. In 1893 there were 1,156 deaths ; in 1892, 1,177 ; in 1891, 1,244.

The death rate is at the rate of 17·2 per 1·000 for the whole Borough. For Hanley the death rate is 18, Shelton, 16·4.

In 1893 the death rate for the Borough was 20·2; in 1892, 20·1; in 1891, 22·3.

This is the lowest death rate that I can find recorded in Hanley, as far back as I can trace, viz. : to 1873.

This exceptionally low death rate extended throughout the whole country. Probably the moderate temperature of 1894 and the absence of drought has had a favourable influence on the health of the country.

The death rate for the thirty-three largest English towns was 18·1, ranging from 13·2 in Croydon, to 23·8 in Liverpool.

The Zymotic death rate was 2·1 per 1000. In 1893 it was 4; in 1892, 3; in 1891, 3·3.

In Hanley the Zymotic death rate was 2·5, in Shelton, 1·8.

The Zymotic death rate for the 33 largest towns was 2·4.

The deaths of children under one year to 1,000 births are 188. In Hanley, 194; in Shelton, 183.

In the 33 largest towns there were 152 deaths under one year to 1,000 births, against an average rate of 166 in the preceding ten years.

In 1893 the deaths in the Borough of children under one year to 1,000 births were 195; in 1892, 201; in 1891, 189.

CAUSES OF DEATH.—Of the Deaths from Zymotic Diseases, there were :—

Measles	..	..	..	..	..	4
Scarlet Fever	..	..	..	..	..	12
Diphtheria	..	..	..	..	..	9
Membranous Croup	..	..	..	..	..	15
Whooping Cough	..	..	..	..	..	37
Typhoid Fever	..	..	..	..	..	6
Continued Fever	..	..	..	..	..	1
Diarrhœa and Dysentery	..	..	..	..	..	36
Puerperal Fever	..	..	..	..	..	2

The deaths from Bronchitis, Pneumonia, and Pleurisy were 220 ; in 1893, 241 ; in 1892, 301 ; in 1891, 285.

Deaths from Phthisis were 51, rate per 1,000, 0·88.

„	„	in 1893, 74,	„	1,000, 1·3.
„	„	in 1892, 66,	„	1,000, 1·07.
„	„	in 1891, 70,	„	1,000, 1·2.

In the Hanley district there were 24 inquests and 30 uncertified deaths.

In Shelton, 19 inquests and 25 uncertified deaths.

Total for the Borough, 43 inquests, 55 uncertified deaths.

NOTIFICATIONS OF INFECTIOUS DISEASES.—During the year I have received the following notifications of Infectious Diseases :—

Scarlet Fever	..	..	..	..	270
Diphtheria	..	..	..	..	26
Membranous Croup	..	..	..	..	17
Enteric or Typhoid Fever	..	..	..	..	46
Continued Fever	..	..	..	..	15
Puerperal Fever	..	..	..	..	4
Erysipelas	..	..	..	..	52
Measles	..	..	..	..	33
					463

	In	1891	1892	1893	1894
Small Pox	..	..	..	7	..
Scarlet Fever	..	205	85	215	270
Diphtheria	..	22	23	31	26
Membranous Croup	3	2	14	17	
Typhoid Fever	..	110	69	159	46
Continued Fever	17	12	31	15	
Puerperal Fever	5	3	10	4	
Erysipelas	..	37	49	62	52
Measles	..	1027	124	956	33
					363
					1,426
					367
					1,485
					363



Scarlet Fever has been prevalent in Hanley during the whole of 1894, three-fourths of the notified cases being of that complaint. It was most rife in the months of April, May, September and October. 11 deaths took place in Hanley, and three among the 121 cases removed to the Contagious Diseases Hospital at Bucknall.

The death rate in the cases that were left at home was 7·3 per 100 notified cases ; in 1893 it was 9·6.

In the cases removed to the Hospital the death rate was only 1·6.

The whole death rate, including cases removed and those left at home, was 7·3 per cent.

Removal of Scarlet Fever patients to the Hospital at Bucknall not only prevents the spread of the Disease, but, in most cases, gives them a better chance of recovery.

TYPHOID FEVER.—There were 46 cases notified, although 46 is by no means so formidable a black list as 159, still it is a black list, as Typhoid Fever is a preventable disease and should not be present amongst us at all.

The abundant rainfall and absence of prolonged heat during 1894 had probably a good deal to do with preventing the spread of the disease.

The cases have been scattered throughout the town, and, as in 1893, have occurred in new houses as much as in old, and in houses with water closets as much in proportion as in houses with cess pool privies and Rochdale pans ; also, as in 1893, offensive smells from the man holes in the vicinity have been complained of, but to nothing like so great a degree.

Of the 46 typhoid cases, nine were removed to the North Staffordshire Infirmary.

There were six deaths amongst the patients who remained in their homes, and one of the infected persons removed to the North Staffordshire Infirmary died.

The cases and deaths occurred in the following order:—

	Cases	Deaths
January .. ..	1	0
February .. ..	3	1
March .. ..	3	0
April .. ..	2	0
May .. ..	1	0
June .. ..	3	0
July .. ..	10	1
August .. ..	3	3
September .. ..	4	1
October .. ..	3	0
November .. ..	7	0
December .. ..	6	0
	<hr/> 46	<hr/> 6

DIPHTHERIA.—There were 26 cases of Diphtheria notified, and nine deaths.

In all cases of Infectious disease notified to me, I have caused notices to be sent to the Schools, to exclude the children of those households from School for a stated time.

I also, in each case, sent notice to the Free Library, to discontinue supplying books to the infected household, and to send any books previously supplied, to the Sanitary Office, to be disinfected.

DIARRHŒA.—In accordance with a circular from the Local Government Board, the medical men of the town were requested by the Sanitary Authority to notify all cases of Diarrhœa in children over five years of age, occurring in the months of August and September.

98 notifications of Diarrhœa were sent in during the two months.

The deaths from Diarrhœa and Dysentery in twelve months were 36, principally infantile. Under five years, 32; over five years, 4.

In 1893 Diarrhœa was very prevalent, causing 92 deaths, and four from English Cholera ; in 1892, 35 ; in 1891, 39.

LOCAL GOVERNMENT BOARD INSPECTION.—Dr. Sweeting, an inspector of the Local Government Board, paid two visits to Hanley, the first in February, and the second in April. He about the same time also visited the neighbouring pottery towns. The object of the visits was to ascertain our state of preparedness to resist an invasion of Cholera.

Most of the large towns in the country were visited by Inspectors from the Local Government Board in the same manner.

The Sanitary Authority are taking measures to substitute water closets for cess-pool privies and Rochdale pans, but there is difficulty in putting in clean water closets, owing to the charge made by the Water Works Company, and the slop water closets have disadvantages of their own ; amongst them the fact, that the sewage is more offensive and difficult to deal with than in the case of clean water closets.

In all the new houses roofed-in ash-pits are built, but amongst old property there are still many open ash-pits.

The Sanitary Authority are taking steps to connect with the public sewerage those parts of the district which are unconnected, and have a scheme on hand to improve the present system of sewage disposal. They have also come to an arrangement with the Shelton Steel and Iron Company, that will, it is hoped, abate an old standing nuisance.

Two most important events in a sanitary point of view have taken place in the year, I allude to the opening of the first section of the Hanley Park and the inauguration of the Electricity Works.

The Bakehouses in Hanley have been all inspected and are in a very fair condition.

HOUSING OF THE WORKING CLASSES ACT, 1890.—Under this



Act, notices have been served on the Landlords of the following houses in the Borough :—

112, 116, Etruria Road,  
 1 in Court back of 112, Etruria Road,  
 24, Hanover Street,  
 House at back of 24, Hanover Street,  
 9, 11, 13, 15, 17, Durham Street,  
 23, Kent Street,  
 13, Bostock Square,  
 8 and 10, Cook's Entry,  
 House over arch in Wellington Street,  
 2, Bentley's Buildings,  
 109a, Etruria Road.

Some of these houses are now either empty or used as workshops ; others have through repairs or structural alterations been rendered fit for habitation.

Proceedings have been taken twice during the year, in the Stipendiary Court, to obtain closing orders. In each case the orders have been granted, and the houses closed until they have been made habitable.

At the request of the Committee I visited the Congress of the Sanitary Institute, in company with the Chairman and the two Sanitary Inspectors. I was enabled to take some part in the proceedings, and much useful information was obtained.

I have appended to this report two Tables, A and B, drawn up by the direction of the Local Government Board, which will repay careful perusal.

Table A gives the different deaths at groups of ages ; also all the deaths from the principal causes, distinguishing deaths of children under five years of age.

Table B gives population, births, and new cases of infectious sickness coming to the knowledge of the Medical Officer of Health, classified according to diseases, ages and localities.



I have also appended a list of the streets in Hanley in which cases of infectious disease existed. The streets which had cases of Typhoid Fever in them are marked with Red Ink.

COURTS.—Wray's Court, 1 and 2 Courts in Chapel Street, Rochells Court, Bostock Square, and several other similar localities still continue to be a source of danger to the Public Health, in consequence of the habits of the people living in them.

Inspector Johnson visits them twice and often three times a week, and invariably finds the closets and areas in a very dirty condition. Although the Inspector insists upon the places being cleansed while he is there, he finds, on subsequent visits, that they are as bad as ever.

Proceedings could be taken under Section 21 of the Public Health Acts (Amendments Act, 1890), which specifies a Ten Shillings penalty, and a daily penalty of Five Shillings during default, but if the offenders were proceeded against, and a penalty imposed, there would be a difficulty in recovering it.

SMOKE INSPECTION.—During the year the Inspector has made 289 observations and served 41 notices for the abatement of smoke nuisances. One firm was summoned and a conviction obtained. In several cases structural alterations have been made, and in all other cases where notices have been served, greater care has been exercised in firing.

WORKSHOPS.—There have been 702 visits paid to workshops, of which there are 450 in the Borough. 68 notices have been served to enforce limewashing, ventilation, etc., all of which have or are being complied with.

In compliance with section 3 of the Factory and Workshops Act, 1891, there have been 56 workshops notified to H.M. Inspector of Factories for the district.

FACTORIES.—The Inspector has made 170 visits to factories to enforce the law regarding sanitary accommodation. 14 Notices were served under the provisions of the Public Health Act (Amendment Act, 1890), to enforce the provision of sufficient and suitable sanitary

conveniences in various factories and workshops, and these have been complied with.

SHOP HOURS ACT.—Acting under the provisions of the Shop Hours Regulation Act, Inspector Steward has made 498 visits to shops. A number of offences against the provisions of the Act came under the observation of the Inspector, and on them being pointed out to the offending parties, they in each case, made such arrangements as were necessary to comply with the Act.

## LIST OF STREETS,

*With the number of Scarlet Fever, Diphtheria, Typhoid Fever, Diarrhœa and Measles Cases notified in the same during 1894.*

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Diarrhœa	No. of Cases of Measles
Ashford street ..	2	..	..	..	..
Austin street ..	..	..	..	1	.
Albert street ..	..	..	..	2	..
America street ..	..	..	..	..	2
Bagnall street ..	1	..	..	..	..
Boughey terrace ..	4	..	..	..	..
Botteslow street ..	1	..	2	2	1
Broom street ..	2	..	..	1	..
Bucknall New road	2	..	..	2	..
Bold street .. ..	2	..	..	3	3
Bower street .. ..	3	..	..	..	..
Bryan street .. ..	1	..	2	1	..
Beresford street ..	6	..	..	..	..
Broad street .. ..	1	..	2	1	2
Bexley street .. ..	1	..	..	..	..
Brunswick place ..	1	..	..	..	..
Brown street .. ..	1	..	..	1	..
Brighton street ..	1	..	..	..	..
Bostock square ..	1	..	..	..	..
Bright street .. ..	..	..	1	1	..
Bedford street ..	..	1	..	..	..
Bath street .. ..	..	1	..	..	..
Boundary street ..	..	.	..	1	..
Berkeley street ..	..	..	..	1	..
Clive street .. ..	1	..	..	..	..
Church street .. ..	3	..	..	..	..
Charles street .. ..	3	..	..	..	..
Cauldon road .. ..	10	..	1	1	..
Chell street .. ..	4	..	2	..	1
Cliffe Vale .. ..	2	..	..	..	..
Clyde street .. ..	6	..	..	..	..
Chatham street ..	6	.	..	..	1
Compton street ..	3	2	..	..	..
Croston street ..	1	..	..	..	..
Cleveland street ..	2	1	..	..	2
Cobden street .. ..	1	1	..	..	2
Commercial road ..	2	..	..	..	1
Cobridge road .. ..	1	..	..	..	..
Conway street .. ..	..	1	..	..	..

LIST OF STREETS.—(*Continued*).

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Diarrhœa	No. of Cases of Measles
Clough street.. ..	..	1	..	..	..
Derby street .. ..	5	..	1	1	..
Dale street .. ..	1	..	..	..	..
Darnley street .. ..	2	..	..	..	..
Davis street .. ..	2	1	..	..	..
Denbigh street .. ..	..	..	..	3	..
Etruria vale .. ..	3	..	..	1	1
Etruria road .. ..	2	2	4	1	1
Elgin street .. ..	3	..	1	1	..
East view .. ..	1	..	..	..	..
Edward street .. ..	1	..	..	..	..
Eagle street .. ..	1	..	..	2	..
Eaton street .. ..	..	1	..	..	..
Elm street .. ..	..	..	..	1	..
Elizabeth street .. ..	..	..	..	2	1
Festing street .. ..	1	..	..	1	..
Fenton road .. ..	3	..	..	1	..
Franklyn street .. ..	..	..	..	1	..
Greville street .. ..	1	..	..	..	..
Gilman street .. ..	1	..	1	..	..
George street .. ..	2	..	..	..	..
Gill street .. ..	2	..	..	..	..
Gower street .. ..	2	..	..	1	..
Grafton street .. ..	..	..	1	1	..
Grosvenor street .. ..	..	..	1	..	..
Hampton street .. ..	1	..	..	2	2
Herbert street .. ..	1	..	..	..	1
Hill street . . .	1	..	..	..	..
Hassall street.. ..	1	..	..	..	..
High street .. ..	2	1	..	4	..
Haywood street .. ..	1	..	..	..	..
Havelock place .. ..	..	1	..	1	..
Hind street .. ..	..	..	..	1	..
Hope street .. ..	..	..	..	2	..
Henry street .. ..	..	..	..	..	1
Jervis street .. ..	..	1	..	..	..
Jasper street .. ..	..	..	1	..	..
Keeling's lane .. ..	4	..	1	6	..
King street .. ..	..	1	..	..	..
Leek road .. ..	8	..	3	1	..
Lonsdale street .. ..	4	..	1	..	..
Lichfield street .. ..	1	..	..	1	1
Lincoln street .. ..	2	..	1	..	..



LIST OF STREETS.—(*Continued*).

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Diarrhoea	No. of Cases of Measles
Leonard road .. ..	1	..	..	..	1
Lower Mayer street	1	..	..	2	..
Lord street .. ..	..	1	..	1	..
Loftus street .. ..	..	1	..	..	..
Lister street .. ..	..	..	1	..	..
Lomas street .. ..	..	..	1	.	..
Mollart street .. ..	1	..	..	..	..
Market street .. ..	1	..	1	2	..
Mayer street .. ..	1	1	..	..	1
Milton street .. ..	7	..	..	..	..
Mount Pleasant .. ..	7	2	..	..	..
Melville street ..	1	..	..	..	..
Meadow street .. ..	1	..	..	..	..
Melbourne street ..	1	..	..	..	..
Minor street .. ..	..	..	1	..	..
Marsh street .. ..	..	..	1	1	..
Moston street .. ..	..	..	..	..	1
Newland street .. ..	8	..	..	1	..
Newcastle road .. ..	9	..	..	..	1
Norfolk street .. ..	4	..	..	..	..
Nelson road .. ..	1	..	..	..	..
New street .. ..	1	..	..	..	..
Nelson place .. ..	..	1	..	..	..
North street .. ..	..	..	..	1	..
Old Hall terrace ..	..	..	..	2	..
Princes street .. ..	1	..	..	..	..
Pelham street .. ..	1	..	..	..	..
Paddock street .. ..	2	..	..	2	..
Peel street .. ..	2	..	..	2	..
Plough street .. ..	1	..	..	..	..
Pyenest street .. ..	1	..	1	1	..
Prospect terrace ..	1	..	..	..	..
Picton street .. ..	1	..	..	..	..
Pall Mall .. ..	.	..	..	1	..
Piccadilly .. ..	..	..	..	1	..
Queen Anne street	5	..	..	1	..
Queen street .. ..	..	..	..	1	..
Russell street .. ..	4	..	..	..	..
Raymond street .. ..	3	..	..	..	..
Regent street .. ..	1	..	..	3	..
Ricardo street .. ..	1	..	..	..	..
Regent road .. ..	..	..	2	..	..
Rutland street .. ..	..	..	..	2	..

LIST OF STREETS.—(*Continued*).

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Diarrhœa	No. of Cases of Measles
Rhodes street ..	..	..	..	..	1
Rose street ..	..	..	..	..	1
Seymour street ..	1	..	..	..	..
Swan street ..	1	..	..	..	..
Stedman street ..	1	..	..	..	..
St. John street ..	1	..	1	..	1
Stoke road ..	2	..	1	..	..
Sheaf street ..	3	..	..	..	..
Stanhope street ..	1	..	..	1	..
Seaford street ..	6	..	..	2	..
Sydney street ..	2	..	2	..	..
Snow Hill ..	1	..	..	..	..
Sun street ..	1	..	1	..	1
Smith street ..	..	..	1	..	..
Simpson street ..	..	..	1	..	..
St. Mark street ..	..	..	1	1	..
Swan Passage ..	..	1	..	..	..
Spur street ..	..	..	..	1	..
South street ..	..	..	..	1	..
Stanley street ..	..	..	..	2	..
Stafford street ..	..	..	..	1	..
Talbot street ..	4	..	..	1	..
Twemlow street ..	3	..	..	..	..
Trafalgar street ..	1	..	..	..	..
Trinity street ..	1	..	..	..	..
Union street ..	2	..	1	..	..
Victoria street ..	8	..	..	2	..
Vincent street ..	..	1	1	..	..
Victoria road ..	..	..	1	..	..
Ward street ..	3	..	..	2	..
Wellesley street ..	5	..	..	..	..
William street ..	2	..	..	..	..
Well street ..	1	..	..	3	..
Waterloo street ..	4	..	..	1	..
Wellington road ..	2	..	..	..	..
Wellington street ..	1	..	1	..	..
Wedgwood street ..	1	..	..	..	..
Whitmore street ..	1	..	..	..	..
Windsor street ..	..	..	..	2	..
West street ..	..	..	..	..	1
Weaver street ..	..	..	..	..	1
York street ..	5	1	..	1	..



TABLE B.

*Showing Population, Births, and New Cases of Infectious Sickness, coming to the knowledge of the Medical Officer of Health, during the year 1894, in the Urban Sanitary District of Hanley; classified according to Diseases, Ages and Locality.*

LOCALITY	Census 1891	Estimated to middle of 1894	Registered Births	Aged under 5 or over 5	NEW CASES OF SICKNESS IN EACH LOCALITY, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH										NUMBER OF SUCH CASES RE- MOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLA- TION HOSPITAL	
					Scarlatina	Diphtheria	Membranous Group	FEVERS			Erysipelas	Measles	Diarrhoea			
								Enteric or Typhoid	Continued	Puerperal						
Hanley . . . . .	25618	26753	1012	Under 5 ..... 5 upwards	38	7	3	1	....	4	15	.....	7	.....	Diphtheria	
					55	4	18	7	3	21	4	59	41	1		
Shelton . . . . .	29328	30521	1043	Under 5 ..... 5 upwards	71	7	2	2	....	4	11	....	19	.....	Scarlatina	
					106	8	23	5	1	23	3	39	54	1		
TOTALS..	54946	57274	2055	Under 5 ..... 5 upwards	109	14	5	3	....	8	26	.....	26	.....	Diphtheria	
					161	12	41	12	4	44	7	98	95	2		



## SUMMARY OF WORK.

No. of Special Complaints .. .. .	339
„ Nuisances Found .. .. .	2411
„ „ Abated .. .. .	2341
„ Notices Served .. .. .	1168
„ Privy Conversions .. .. .	73
„ References to Borough Surveyor and Water Office	32
„ Smoke Observations Taken .. .. .	326

## INFECTED HOUSES.

No. of Infectious Cases Visited .. .. .	515
„ „ „ Removed .. .. .	128
„ Infected Houses Fumigated .. .. .	356
„ „ Articles Disinfected .. .. .	3620

## HOUSE INSPECTION.

No. of Houses Inspected .. .. .	1704
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PROCEEDINGS UNDER THE SALE OF FOOD  
AND DRUGS ACT.

No. of Samples Purchased for Analysis .. .. .	120
„ „ Adulterated .. .. .	4

## MARGARINE ACT.

No. of Visits to Shops .. .. .	220
„ Samples Analysed .. .. .	0

# SAMPLES TAKEN

*Under the Sale of Food and Drugs Act.*

27	of Milk .. .. .	Adulterated	2
20	„ Butter .. .. .	„	1
1	„ Pepper .. .. .	„	0
9	„ Whiskey .. .. .	„	1
6	„ Vinegar .. .. .	„	0
3	„ Bread .. .. .	„	0
8	„ Coffee .. .. .	„	0
3	„ Oatmeal .. .. .	„	0
13	„ Lard .. .. .	„	0
6	„ Sweet Spirits of Nitre .. .. .	„	0
5	„ Mustard .. .. .	„	0
6	„ Cream of Tartar .. .. .	„	0
6	„ Ground Ginger.. .. .	„	0
3	„ Yeast .. .. .	„	0
2	„ Ale .. .. .	„	0
2	„ Chicory .. .. .	„	0



